View NSN Online: https://aerobasegroup.de/nsn/6140-01-250-2113

YUASA-EXIDE,INC. -- LEAD-ACID BATTERY -- 6140-01-250-2113

=========== Product Identification =============

Product ID:LEAD-ACID BATTERY

MSDS Date:08/01/1993

FSC:6140

NIIN:01-250-2113

Status Code:A

MSDS Number: CLCJC === Responsible Party ===

Company Name: YUASA-EXIDE, INC.

Address:645 PENN ST.

City:READING

State:PA ZIP:19601 Country:US

Info Phone Num:215-371-0400

Emergency Phone Num:215-378-0500

Chemtrec Ind/Phon e:(800)424-9300 CAGE:0W0V7

=== Contractor Identification ===

Company Name: CELL ENERGY INC Address: 3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706 Country:US

Phone:916-484-7974

Contract Num:SP0430-01-M-FB56

CAGE:1U269

Company Name: YUASA-EXIDE, INC.

Address:645 PENN ST. Box:City:READING

State:PA ZIP:19601 Country:US

Phone:215-371-0400

CAGE:0W0V7

======= Composition/Information on Ingredients ========

Ingred Name:LEAD CAS:7439-92-1 RTECS #:OF7525000 = Wt:60.

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ther REC Limits:100 UG/M3 (NIOSH)

OSHA PEL:50 UG/M3 ACGIH TLV:150 UG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: ANTIMONY

CAS:7440-36-0

RTECS #:CC4025000

= Wt:2.

OSHA PEL:500 UG/M3 ACGIH TLV:500 UG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: ARSENIC

CAS:7440-38-2

RTECS #:CG0525000

= Wt:.2

OSHA PEL:10 UG/M3 ACGIH TLV:200 UG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: CALCIUM

CAS:7440-70-2

RTECS #:EV8040000

= Wt:.2

Ingred Name:TIN CAS:7440-31-5

RTECS #:XP7320000

= Wt:.2

OSHA PEL:2000 UG/M3 ACGIH TLV:2000 UG/M3

Ingred Name: ELECTROLYTE (SULFURIC ACID)

CAS:7664-93-9

RTECS #:WS5600000 Minumum % Wt:10. Maxumum % Wt:30.

Other REC Limits:1000 UG/M3 (NIOSH)

OSHA PEL:1000 UG/M3 ACGIH TLV:1000 UG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: CASE MATERIAL: POLYPROPYLENE, POLYSTYRENE, STYRENE ACRYLONITRILE, ACRYLONITRILE BUTADIENE STYRENE, STYRENE BUTADIENE, POLYVINYLCHLORIDE, POLYCARBONATE, HARD RUBBER, POLYETHYLENE

Minumum % Wt:5. Maxumum % Wt:10.

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:INHALATION:SULFURIC ACID:BREATHING OF SULFURIC ACID VAPORS OR MISTS MAY CAUSE SEVERE RESPIRATORY IRRITATION. LEAD COMPOUNDS: INHALATION OF LEAD DUST OF FUMES MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT AND LUNGS.

INGESTION:SULFURIC ACID:MAY CAUSE SEVERE IRRITATION OF MOUTH, THROAT, ESOPHAGUS AND STOMACH.LEAD COMPOUNDS:ACUTE INGESTION MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA AND SEV ERE CRAMPING. SKIN:SULFURIC ACID:SEVERE IRRITATION, BURNS, AND ULCERATION. LEAD COMPOUNDS:NOT ABSORBED THROUGH THE SKIN. EYE:SULFIRC ACID: SEVERE IRRITATION, BURNS AND ULCERATION. LEAD COMPOUNDS:MAY C AUSE EYE IRRITATION.

Explanation of Carcinogenicity:ARSENIC : LISTED BY NTP, IARC, OSHA &

NIOSH AS A CARCINOGEN ONLY AFTER EXPOSURE AT HIGH LEVELS.

Effects of Overexposure:ACUTE:SULFURIC ACID:SEVERE SKIN IRRITATION,
DAMAGE TO CORNEA, UPPER RESPIRATORY IRRITATION. LEAD
COMPOUNDS:SYMPTOMS OF TOXICITY INCLUDE HEADACHE, FATIGUE, ABDOMINAL
PAIN, LOSS OF APPETITE, MUSCULAR AC HES AND WEAKNESS, SLEEP
DISTURBANCES AND IRRITABILITY. CHRONIC: SULFURIC ACID: POSSIBLE
EROSION OF TOOTH ENAMEL; INFLAMMATION OF NOSE, THROAT AND BRONCHIAL
TUBES. LEAD COMPOUNDS: ANEMIA;

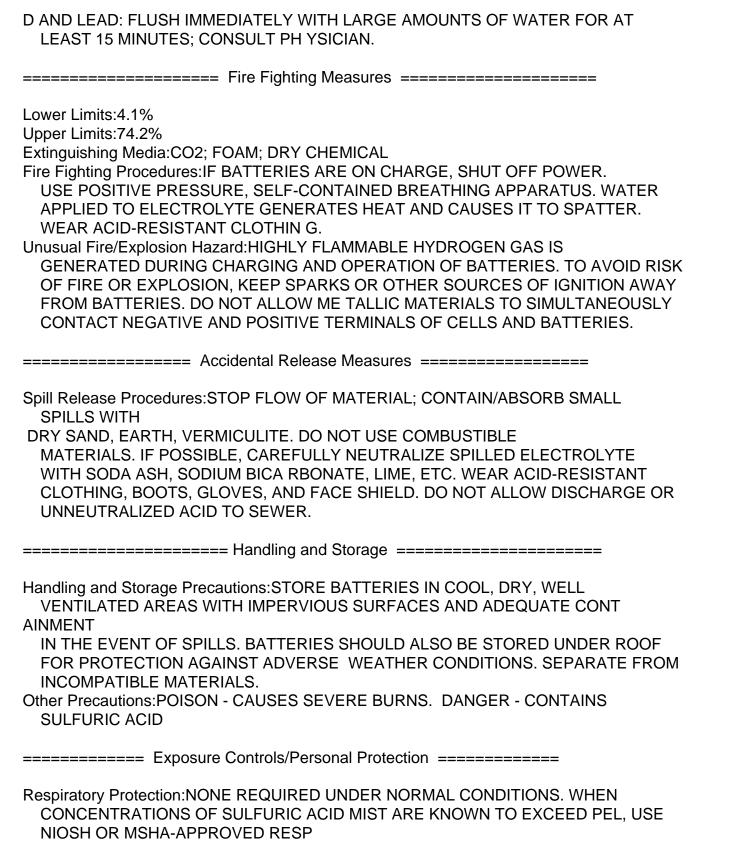
NEUROPATHY, P ARTICULARLY OF THE

MOTOR NERVES, WITH WRIST DROP; KIDNEY DAMAGE; REPRODUCTIVE CHANGES IN BOTH MALES AND FEMALES.

Medical Cond Aggravated by Exposure:OVEREXPOSURE TO SULFURIC ACID MIST MAY CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS. CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECXEMA AND CONTACT DARMATITIA.

First Aid:INHALATION:SULFURIC ACID: REMOVE TO FRESH AIR IMMEDIATELY. IF

BREATHING IS DIFFICULT, GIVE OXYGEN. LEAD: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND LIPS; CONSULT PHYSICIAN. INGESTION: SULFURIC ACID: G IVE LARGE QUANTITIES OF WATER; DO NOT INDUCE VOMITING; CONSULT PHYSICIAN. LEAD: CONSULT PHYSICIAN IMMEDIATELY. SKIN: SULFURIC ACID: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES; REMOVE CONT AMINATED CLOTHING COMPLETELY. INCLUDING SHOES. LEAD: WASH IMMEDIATELY WITH SOAP AND WATER. EYES: SUFURIC ACI



IRATORY PROTECTION.

Ventilation:STORE AND HANDLE IN WELL-VENTILATED AREAS. IF MECHANICAL VENTILATION IS USED, COMPONENTS MUST BE ACID-RESISTANT

Protective Gloves: RUBBER OR PLASTIC ACID-RESISTANT GLOVES WITH ELBOW-LENGTH GAUNTLET

Eye Protection: CHEMICAL GOGGLES OR FACE SHIELD

Other Protective Equipment: ACID-RESISTANT APRON. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID-RESISTANT CLOTHING AND BOOTS.

Work Hygienic Practices: HANDLE BATTERIES CAUTIOUSLY TO AVOID SPILLS. MAK

E CERTAIN VENT CAPS ARE ON SECURELY. AVOID CONTACT WITH INTERNAL COMPONENTS. WEAR PROTECTIVE CLOTHING WHEN FILLING OR HANDLING BATTERIES.

Supplemental Safety and Health

DLA-HMIS STAFF NOTE: YUASA-EXIDE WAS SPLIT INTO 2 ENTITIES SOMETIME IN LATE 2000. THE TWO ENTITIES ARE: ENERSYS (MAINLY GEL-CELL OR NON-FILLED LEAD-ACID BATTERIES) AND EXIDE. WHAT BATTERY BELONGS TO W HICH COMPANY WILL HAVE TO DETERMINED BY PART NUMBER; MUST CALL COMPANY TO FIND OUT.

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hysical/Chemical Properties	=======================================

HCC:C1

Boiling Pt:=95.C, 203.F Vapor Pres:10 (MM HG)

Vapor Density:> 1

Spec Gravity:1.215 TO 1.350 (H2O=1)

Evaporation Rate & Evaporation R

Solubility in Water:100%

Appearance and Odor:NO APPARENT ODOR. ELECTROLYTE: CLEAR LIQUID, SHARP, PENETRATING, PUNGENT ODOR.

====== Stability a	and Reactivity Data	============
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Stability Indicator/Materials to Avoid:YES

SULFURIC ACID: CONTACT WITH COMBUSTIBLES AND ORG

ANIC MATERIALS MAY

CAUSE FIRE AND EXPLOSION. ALSO REACTS VIOLENTLY WITH STRONG REDUCING AGENTS, METALS, SULFUR TRIOXIDE GAS, STRONG OXIDEZERS AND WATER.

Stability Condition to Avoid:PROLONGED OVERCHARGE; SOURCES OF IGNITION. Hazardous Decomposition Products:SULFURIC ACID: SULFUR TRIOXIDE, CARBON MONOXIDE, SUFIRC ACID MIST, SULFUR ACIDE MIST, SULFUR DIOXIDE, HYDROGEN.

 LOXICO	logica	al I	Ini	ormation	==============

Toxicological Information:SULFURIC ACID:T

HE INTERNATIONAL AGNECY FOR RESEARCH ON CANCER(IARC) HAS CLASSIFIED STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID AS A CATEGORY I CARCINOGEN, A SUBSTANCE THAT IS CARCINOGENIC TO H UMANS. THIS CLASSIFICATION DOES NOT APPLY TO LIQUID FORMS OF SULFURIC ACID OR SULFURIC ACID SOLUTIONS
CONTAINED WITHIN A BATTERY. ARSENIC: LISTED BY NTP, IARC, OSHA & NIOSH AS A CARCINOGEN ONLY AFTER EXPOSURE AT HIGH LEVELS. LEAD COMPOUNDS: LEAD IS LISTED AS A 2B CARCINOGEN, LIKELY I ANIMALS AT
EXTREME DOSES. PROOF OF CARCINOGENICITY IS LACKING IN HUMANS.
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cological:NO DATA PROVIDED BY MANUFACTURER
======== Disposal Considerations ============
Vaste Disposal Methods:SPENT BATTERIES:SEND TO SECONDARY LEAD SMELTER FOR RECYCLING. PLACE NEUTRALIZED SLURRY INTO SEALED CONTAINERS AND DISPOSED OF AS HAZARDOUS WASTE, AS APPLICABLE. LARGE WATER-DILUTED SPILLS, AFTER NEUTR
LIZATION AND TESTING, SHOULD BE HANDLED IN ACCORDANCE WITH APPROVED LOCAL, STATE AND FEDERAL REQUIR EMENTS.
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ransport Information:US DOT: WET (FILLED WITH ELECTROLYTE) BATTERIES ARE REGULATED BY US DOT AS HAZARDOUS MATERIAL: PROPER SHIPPING NAME: BATTERIES, WET, FILLED WITH ACID. HAZARD CLASS/DIVISION: 8. ID NUMBER: UN2794. PACK ING GROUP: III. LABEL REQUIRED: CORROSIVE.

====== Regulatory Inf ormation ==========

SARA Title III Information:RQ FOR SPILLED 100% SULFURIC ACID UNDER CERCLA (SUPERFUND) AND EPCRA IS 1000 LBS. STATE AND LOCAL REPORTABLE QUANTITIES FOR SPILLED ACID MAY VARY. SULFURIC ACID IS A LISTED "EXTREMELY HAZARDOUS SUBSTA NCE" UNDER EPCRA, WITH A THRESHOLD PLANNING QUANTITY (TPQ) OF 1000 LBS. EPCRA SECTION 302 NOTIFICATION IS REQUIRED IF 1000 OR MORE OF SULFURIC ACID IS PRESENT AT ONE SITE. THE QUANTITY OF SULFURIC ACI D WILL VARY BY

BATTERY TYPE. CONTACT YOUR YUASA-EXIDE REPRESENTATIVE FOR ADDITIONAL INFORMATION. EPCRA SECTION 312 TIER 2 REPORTING REQUIRED FOR BATTERIES IF SULFURIC ACID IN QUATITIES GREATER THAN 50 0 LBS PRESENT.

Federal Regulatory Information:INGREDIENTS IN YUASA-EXIDE'S BATTERIES ARE LISTED IN THE BCA REGISTRY AS FOLLOWS: SULFURIC ACID, CAS# 7664-93-9; LEAD (PB), CAS# 7439-92-1; LEAD OXIDE (PBO), CAS# 1317-36-8; LEAD SULFATE (PBSO4); ANT IMONY (SB), CAS# 7440-36-0; ARSENIC

(AS), CAS# 7440-32-2; CALCIUM (CA), CAS# 7440-70-2; TIN (SN), 7440-31-5.

State Regulatory Information: NO DATA PROVIDED BY MANUFACTURER

=========== Other Information =============

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